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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,961	05/16/2005	Masahiko Kadokura	10873.1601USWO	1695
53148 7590 03/10/2008 HAMRE, SCHUMANN, MUELLER & LARSON P.C. P.O. BOX 2902-0902 MININE A DOLLE MIN 55402			EXAMINER	
			CATTUNGAL, SANJAY	
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			3768	
			MAIL DATE	DELIVERY MODE
			03/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/534,961	KADOKURA, MASAHIKO				
Office Action Summary	Examiner	Art Unit				
	SANJAY CATTUNGAL	3768				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1,704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tin fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16 Ma	av 2005.					
·	<u> </u>					
· <u> </u>	/ <del></del>					
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	·					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 16 May 2005 is/are: a) accepted or b) objected to by the Examiner.						
	•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmont/s)						
Attachment(s)  1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) 🗖 Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application				
Paper No(s)/Mail Date <u>5/16/05</u> . 6)						

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Patent No. 5,048,529 to Blumenthal.
- 3. Regarding Claims 1 and 6, Bluementhal teaches an ultrasonic probe, comprising an inserting portion to be inserted into a body cavity (Col. 1 lines 40-65); and a grip portion held by an operator outside of the body cavity, wherein the inserting portion includes a transducer unit for transmitting and receiving an ultrasonic wave, a rotation axis provided in the transducer unit, and a swing mechanism for swinging the transducer unit around the rotation axis as a center axis, and the grip portion includes a motor for driving the swing mechanism, the swing mechanism includes a shaft connected to the motor, a first pulley provided at an end portion of the shaft different from an end potion connected to the motor, a second pulley coaxially provided at the rotation axis, and a wire connecting the first pulley and the second pulley, and rotational movement of the motor is transmitted to the transducer unit via the shaft, the first pulley, the wire, and the second pulley. (Abstract, Fig. 1-4, and Col. 1 lines 40-65)
- 4. Regarding claim 2, Bluementhal teaches that the first pulley and the second pulley have the same diameter. (Fig. 1)

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## Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. Claims 3-5 rejected under 35 U.S.C. 103(a) as being unpatentable over Blumenthal in view of U.S. Patent No. 4,895,158 to Kawabuchi et al.
- 7. Regarding Claims 3-5, Bluementhal teaches all of the above claimed limitations but does not expressly teach that the wire is moved in a direction orthogonal to the rotation axis.
- 8. Kawabuchi discloses in his ultrasonic probe that the wire is moved in a direction orthogonal to the rotation axis.(Claim 1)
- 9. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Bluementhal with a setup such that the wire is moved in a direction orthogonal to the rotation axis as taught by Kawabuchi, since such a setup would result in the probe being more flexible as it could be rotated in more directions and would have better control too since its done by motor/pulley system.

## Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANJAY CATTUNGAL whose telephone number is (571)272-1306. The examiner can normally be reached on 9:30 - 5:00 pm.

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11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brian Casler can be reached on (571)272-4956. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

12. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SPC

/Brian L Casler/ Supervisory Patent Examiner, Art Unit 3737